IPD PL 5F2,5 M BK - Connector

1490379

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Connector, connection method: Push-lock connection, number of positions: 4+FE, Pin, 0.5 mm^2 . .. 2.5 mm^2, 600 V, 17.5 A, black, coding: F, external cable diameter: 7 mm ... 11 mm and 11 mm ... 16 mm

Your advantages

- Easy distribution of power, as components are plugged directly
- Simple, time-saving wiring in the field with Push-Lock connection
- Reliable installation in harsh environments with IP66, IP68, and IP69K throughout the entire system
- Secure, tool-free locking even in particularly difficult installation situations
- Fast commissioning with preassembled cable assemblies

Commercial data

Item number	1490379
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF51
Product key	AF6LAA
GTIN	4063151937607
Weight per piece (including packing)	78.7 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Assembly note	NOTE: Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.

Product properties

Product type	Installation connector
Product family	IPD
Number of positions	5
Connection profile	4+FE
Position marking	1, 2, 3, 4, FE
Number of connections per position	1
Coding	F

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage (III/3)	6 kV
Rated current	17.5 A
Rated voltage (III/3)	600 V
Nominal voltage U_N	600 V AC
	600 V DC
Nominal current I_N	17.5 A

Connection data

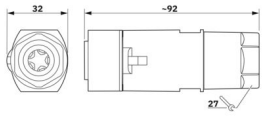
Connection technology

Connection method On the field side	Push-lock connection

Conductor connection

Conductor cross-section flexibel	0.5 mm² ... 2.5 mm²
Conductor cross-section solid	0.5 mm² ... 2.5 mm²
Conductor cross-section with ferrule	0.5 mm² ... 2.5 mm²
Connection cross section AWG	20 ... 14

Dimensions

Dimensional drawing	

Width	32.5 mm
Height	32.1 mm
Length	91.7 mm

Material specifications

Color (Housing)	black (RAL 9005)
Material	PA
Material Seal	NBR
Flammability rating according to UL 94 (Housing)	V0
Contact material	Cu
Contact surface material	Ni/Ag/Sn

Cable/line

External cable diameter	7 mm ... 11 mm
	11 mm ... 16 mm
Position marking	1, 2, 3, 4, FE

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	50 (IP66/IP68/IP69K)
	100 (IP66)

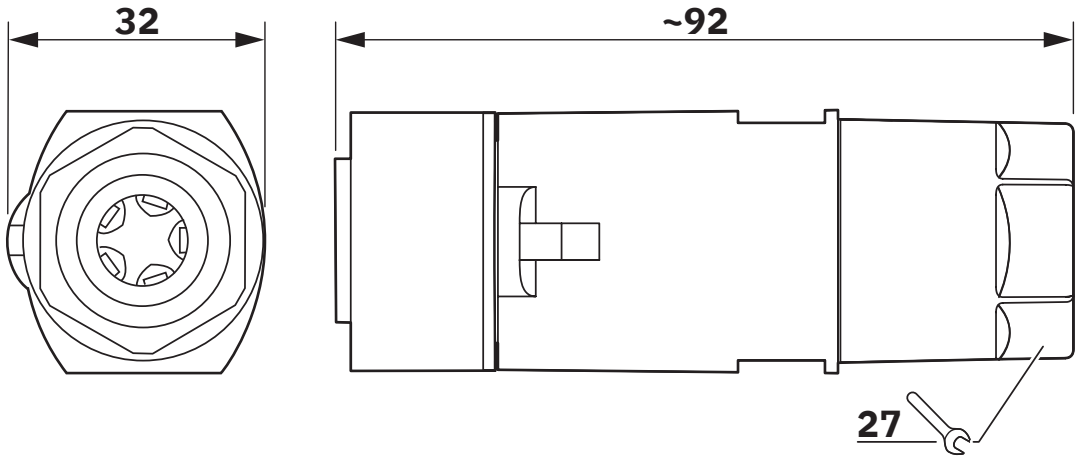
Environmental and real-life conditions

Ambient conditions

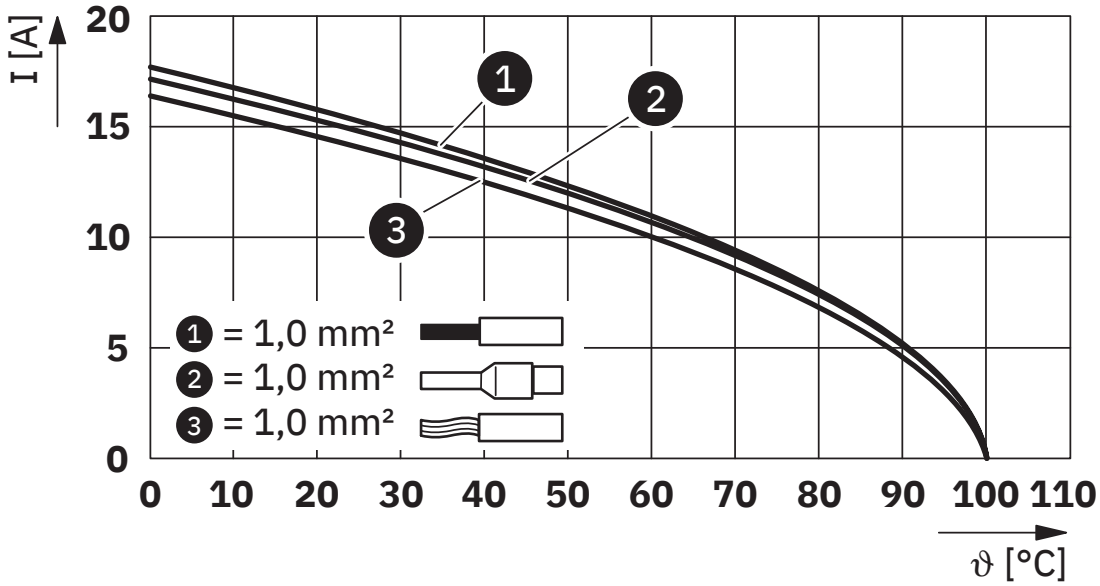
Degree of protection	IP66
	IP68 (2 m / 24 h)
	IP69K
	Touch-proof when not plugged in (IP2X)
Impact strength	IK07
Ambient temperature (operation)	-30 °C ... 100 °C
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-30 °C ... 100 °C
Resistance to UV radiation	yes

Drawings

Dimensional drawing

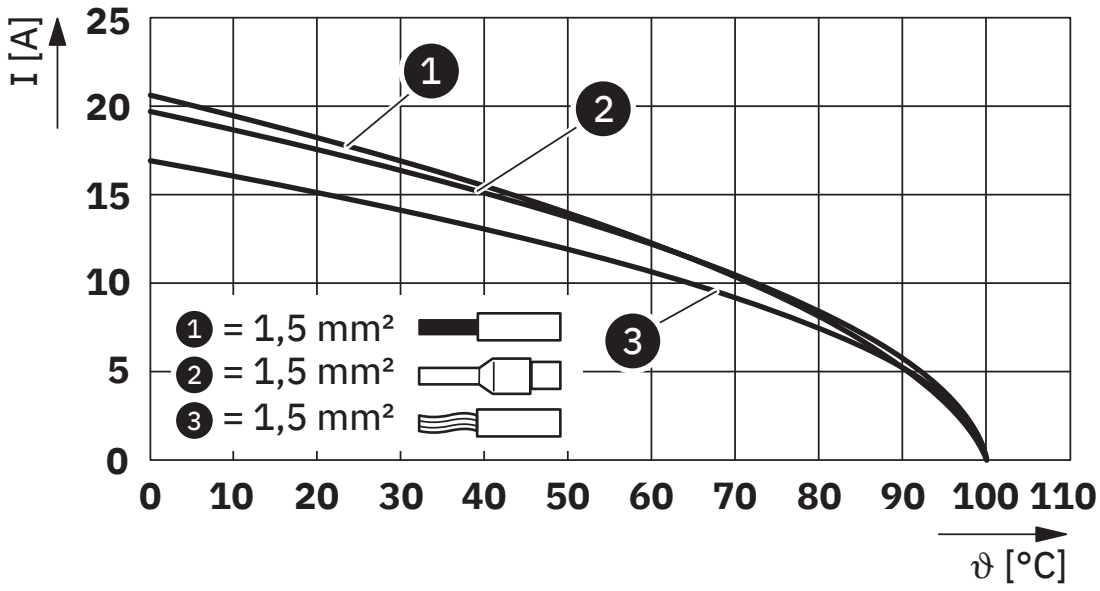


Diagram



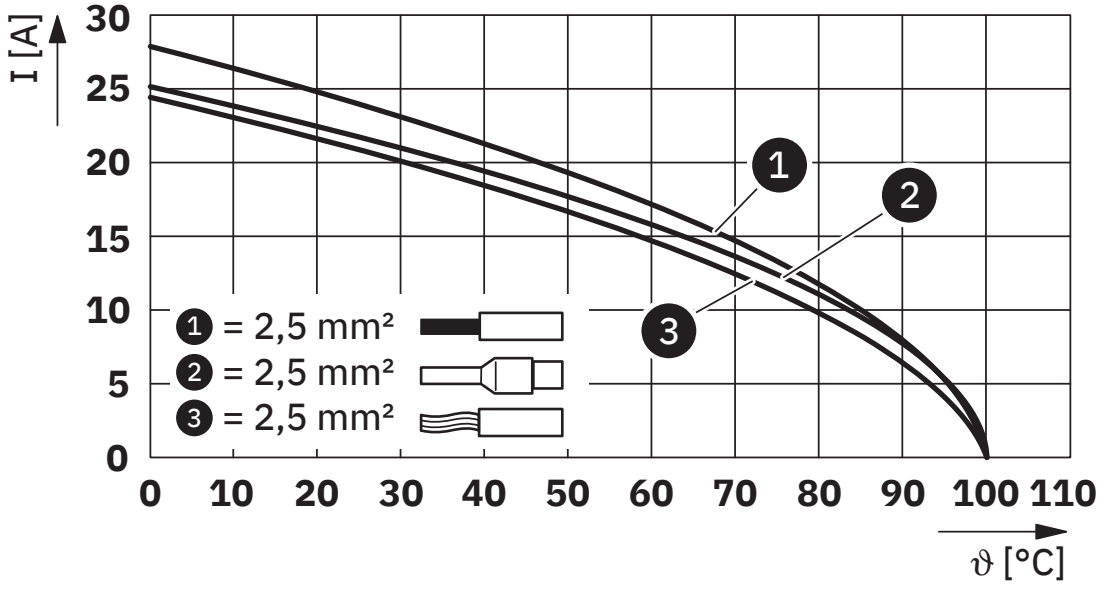
Derating diagram for 1.0 mm^2

Diagram



Derating diagram for 1.5 mm^2

Diagram



Derating diagram for 2.5 mm^2

Approvals

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VDE Zeichengenehmigung
Approval ID: 40059408

cULus Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Only rigid conductors	600 V	20 A	- 14	-
multi-stranded with ferrule	600 V	20 A	- 14	-
Only flexible conductors	600 V	20 A	- 14	-

Classifications

ECLASS

ECLASS-13.0	27440605
ECLASS-15.0	27440605

ETIM

ETIM 10.0	EC002560

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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